

OTVARC News

JANUARY 1993

From the President's Desk

By Dale Mosby, N7PEX

Welcome to a new year. In preparing to write this column I have gone back through some of the past newsletters. I'm glad I did because I have been feeling as if Alan will be a hard act to follow, and also that I'm not a real experienced ham to be stepping into this role. But looking back to last January I find that the introduction for Alan isn't too different than an introduction for me.

In the two and a half years that I have been involved in amateur radio I have earned my Advanced license and have accumulated quite an assortment of VHF, UHF, and HF equipment. Even more exciting than getting my license was see-

*Please See **President...**, page 3*

From the (Ex-) President

By Alan Churchill, AA7CV

What WAS that? Was that a whole year that just flew past? Maybe it was. I was going to do a recap of the entertaining and useful year we just finished but as I made up the list, all I could see was the upcoming year full of great activities for OTVARC. Yes, I did very much enjoy serving as your president for that nano-second of time called 1992 but I am really looking forward to what is on the schedule for 1993.

Just take a look at the "Calendar of Events" elsewhere in this newsletter. We have something for everyone. The year

*Please See (Ex-) **President...**, page 3*

At The Next Meeting:

Wednesday, Jan 13 will be the next regular club meeting at Beaverton Elks. **THE HISTORY OF RADIO.** This is going to be a good one. We are inviting YOU to be a part of this interesting night. We will cover four periods of amateur radio. 1920s and 1930, 1940s and 1950s, 1960s and 1970s and to finish off our time capsule, 1980s and 1990s. There will be equipment displays and explanations of gear too. If you have some gear from any one of these eras, bring it along. Of course, the really old stuff will be the most fun because we don't see it that often. It doesn't need to work. You can lie and tell us you use it daily. Nobody is going to challenge you to hook it up to a dummy load. In addition to the really old stuff, we will have some of the newest to look over. "Thought controlled radio" is only around the corner. Come and have a look.

Inside This Issue:

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President...

from page 1

ing both my wife and daughter become licensed. Through radio I have met many interesting people across the United States and even across the world. Better yet I have made many good friends close to home. I think it was my second OTVARC meeting that I sat down at a table and met a fellow that works at the same company where I work. We have become great friends thanks to the introduction of ham radio.

This summer has seen fifty feet of tower go up at my house. I topped that with a tri-band beam, and mid-December added a two meter beam and a dual band vertical at the top of the mast — a task I don't want to repeat for a while. At times it seems like I spend as much time working on antennas and wiring as I do operating. With this work completed I hope to be more active on the HF bands.

Ham radio would not be much fun without other hams. Of course there would be no one to talk to, and that is the point of all this equipment, right? But aside from that, the other amateurs are a great source of friends, advice, and help. I hope that during this year I can encourage our new members to take advantage of all the experience and help available in the group that makes up OTVARC. I know that many good friendships will form too.

I think this will be a great year. We have all the energy and enthusiasm of Alan back as Vice President and we have a good group as the OTVARC board. I plan to have a great time this year and am looking forward to working with the board to contribute some of my time to a group of people that have given me so much for the last couple of years.

73, Dale, N7PEX

(Ex-) President...

from page 1

starts off with a PROJECT NIGHT on Jan 5 and touches on nearly every special interest in Ham Radio by the end of December. 1993 will indeed be a great year for OTVARC. Thank you very much for allowing me to be your president. It was a great experience and one that many of you would enjoy. Like many other experiences in life, it is easy to fear getting into something new but until you actually get into it, you can't know all the benefits you will derive. I certainly derived more benefits than I expected.

Thanks for a great year and may you always be the first one in the pileup.

73, Alan Churchill, AA7CV

Upcoming Events:

Tuesday, Jan 5: PROJECT NIGHT.
See the article elsewhere in this newsletter for details.

Wednesday, Jan 6: Board meeting.
Location is the Hallmark Inn across from the Hillsboro airport. It will be a dinner meeting starting at 6PM. The transition of duties from the old board to the new will take place. Everyone is welcome.

Wednesday, Jan 13: Regular club meeting at Beaverton Elks. THE HISTORY OF RADIO.

OTVARC Club Contacts

OTVARC Executive Board

President	Dale Mosby	N7PEX	640-0217
Vice Pres	Alan Churchill	AA7CV	639-5660
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Carl Clawson	WS7L	629-5796
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Dave Morrison	W7JXU	645-8788
Trustee	Ira Rubin	KF7QS	244-3070
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2782
Bunny Hunting	Dale LeBarron	W7FBP	638-7768
Contesting	Open		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-6830
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Pat Griffiths	KA7UFG	649-0837
Member Badges	John Klein	KA7ICV	281-0798
Newsletter Editor	Alan Churchill	AA7CV	639-5660
Newsletter Layout	Doug Reeves	N6XHW	690-0696
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers	Alan Roehl	KO7B	292-5243
Project Night	Open		
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Pat Griffiths	KA7UFG	649-0837
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Alan Churchill	AA7CV	639-5660
Technical	Joe Boyd	N7VZS	678-2188
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training (Code)	Tom Durell	KG7RD	
Training (Novice/Tech)	Dave Morrison	W7JXU	645-8788
Training (Upgrade)	Joe Boyd	N7VZS	678-2188
VE Testing	Alan Roehl	KO7B	292-5243
VE Test Schedule	John Klein	KA7ICV	281-0798
VHF/UHF	Bill Roth	N7RYW	297-7605



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OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a non-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The OTVARC News is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the Editorial Staff.

Correspondence: All correspondence may be sent to OTVARC PO Box 5132 Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1993 are as follows:

Full Page	8" X 10"	\$200 for 6 months.
Half Page	8" X 5"	\$125 for 6 months.
Qtr Page	4" X 5"	\$ 75 for 6 months.
Bus Card	2" X 3"	\$ 35 for 6 months.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The General Meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave (1 block off Canyon road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership: OTVARC is open to anyone who breathes. You do not need to be a licensed radio amateur to join our group. Dues are as follows: Full member, \$10/yr; Associate member (nonlicensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for reduced dues.

How to Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

LOCAL HAM CLUBS

(Stop by for a visit)

Name..... Clark Co. ARC
Address..... P.O. Box 1424
Vancouver, WA 98668
Meeting.. First Friday at 7:30 PM
Bagley Comm Center.
4100 Plomondon St. Vancouver
East end of Building
Packet meeting 2nd Tues @ 7:30 PM
Open Bible Church
Corner of SE 10th & Elsworth
President..... Dan Baulig, N7PKB 254-6202
Established.. 1932
Club Call..... W7AIA
Repeater..... 147.24+
Nets..... Tuesday 7 PM 147.24
Tuesday 8 PM 147.24 Swap N Shop
Sunday 8 PM 147.24 Open Session
Activities.... Walk N Knock: March of Dimes
Horse A Thon - Long distance riding
Walk America

Name..... Hoodview ARC
Address..... P.O. Box 20624
Portland, OR 97220
Meeting... Third Thursday @ 7:30 PM
Mt. Hood CC Room 1001
President..... Rob Butt, N7MZR 632-7990
Club Call..... WB7QIW
Repeater..... 147.28
Nets..... 147.27 each Wed at 7:30 PM
28.325 each Wed at 6:45 PM
Activities.... March of Dimes Walk America
Breakfast every Sat at Heidi's
in Gresham. 7:30 AM.

Name..... McMinnville ARC (MARC)
Address..... P.O. Box 891
McMinnville, OR 97128
Meeting... Second Thursday @ 7:30 PM
HP Building
President..... Dave Davis, KB7HQA
843-2532
Repeater..... 146.64

Name..... Portland ARC (PARC)
Address..... 6115 SE 13th Ave.
Portland, OR 97202
Meeting... Fourth Friday @ 7 PM
PCC Southeast Cntr, Rm. C-2
2850 SE 82nd Ave.
President..... J. Kevin Hunt, WA7VTD
655-8900
Established... 1941
Club Call..... W7KYC
Repeater..... 146.84
Nets..... 146.84 each Monday at 7 PM.
Activities.... Portland Marathon
Red Cross
Kelly Butte E.O.C.

Name..... Tektronix Employees ARC
Address..... P.O. Box 500 MS 50-600
Beaverton, OR 97077
Meeting... Fourth Tuesday @ 7:30 PM
Bldg 45 Conf Rm
(Tek Cafeteria)
President..... Gene Single, K7IUN 644-0807
Club Call..... K7AUO
Repeater..... 448.650
Activities.... Artquake
Activities....

If you have updates or additions to this list,
send them to OTV ARC at our PO Box.
Thanks.

FOR SALE OR TRADE OR WANTED OR FREE

Wanted: Diagram, schematic or installation book for old Heathkit Keyer Model HD-10. Is this keyer supposed to have automatic dashes? Please call Bob Ledbetter K6RH at 648-2510.

Wanted: Yaesu FTV 650 B 6M transverter. Under \$100. Ed N7SNT 636-8226.

Wanted: Disk drive for the Commodore computer. Contact Jim Schaeffer KB7AAAADH at 245-2518.

For Sale: TR4 Drake Tranceiver. Includes manuals, Power supply, desk mic. 6146 finals. Phone Gordon W7MAM at 324-9600 for details.

For Sale: Great little 90 watt CW transmitter. Eico model 720 with matching 730 AM modulator. \$90 for both. Works great. Alan AA7CV 639-5660.

For Sale: Member badges for OTVARC members. For only \$4 you get your very own name and call on a pin so we will all know who you are at the meetings. Contact John KA7ICV at any regular meeting.



Barbara Sue Seal

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Beaverton, Oregon 97005

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The Ultimate Attenuator Project

By Dale Hunt, WB6BYU

One of the biggest stumbling blocks people encounter when they start T-hunting (Bunny Hunting, Fox Hunting) is the need for a good attenuator. An attenuator is used to reduce the signal level to the radio so that you can still take bearings when the signal is so strong that it would otherwise pin your "S" meter.

At the December meeting we demonstrated "The Ultimate Attenuator" and the associated antenna. How long did it take to find one 2 Meter rig out of 20 in a crowded room? Under 4 minutes! The demonstration was so popular that we decided to make it a club project. With less than 20 parts and a cost of less than \$30 this is one of the most enjoyable and useful projects you will ever build on a Tuesday night.

We will be building this circuit on Tuesday, Jan 5 from 7PM until 9PM. All you need to bring is \$25, a soldering iron (less than 50 watts), an extension cord and some hand tools. We will have kits made up of all needed parts. Some of you who are whizzes at building will even have time to assemble the antenna. All it takes is 1/2" PVC, fittings and wire. You will leave with a working Bunny Hunt package. Finishing the "Ultimate Attenuator" now will give you time to practice hunting for the club Bunny Hunt in May.

Meeting Place..... Pine Ridge Park
6900 SW 195th at Farmington
Beaverton, OR
Contact: Bud Butterfield @ 649-5146
Talk-in: 146.90
Time: 7PM until 9PM
Date: Tuesday, January 5

Does Santa Know Our Grid Square?

On Friday, November 27, the day after Thanksgiving, 12 Hams braved a cold drenching downpour to help make sure Santa Clause didn't get off course during his arrival in downtown Portland. The event was the annual Celebrate the Season Holiday Parade. There were over 60 entries including all the traditional parade type groups (bands, floats, fire trucks, clowns, horses).

At one point the Hams were asked to report on a horse which was very skittish. When the "parade disband area" officials did not show up on time, Bill N7VZF suddenly assumed the role of traffic director. (Four radios on your person gives the impression of importance and authority).

In a thank you letter, the event organizer Desiree Hamilton stated "As usual, the Hams were invaluable. You are always on time and willing to jump in wherever you are needed. The bonus is that you are totally professional about the task at hand. We sincerely appreciate your presence. We hope we can count on you in 1993 and beyond".

In addition to "Huggy Bear" N7VZF, the Hams who helped were Ira KF7QS, Rex KA7YKR, Joe (not Bill) N7VZS, Chuck KI7CL, Betty N7REX, Ken W7DYX, Carol WA7YEC, Alan KB7POR, John KA7ICV, Tim N7UCA and Jim KB7ADH.

Santa did arrive safely.

PARIS Now Here for Hams

By Steve Johnson, N7VIC

Did you misplace your last copy of the newsletter and want to know what Ham Radio things are going on around Portland? We now have an answer to your needs. It is the Portland Amateur Radio Information System (PARIS). PARIS is a free 24 hour voice mail system which provides information on repeater nets, locations, clubs, hamfests, VE exams and much more.

The system's information comes from Ham club newsletters such as OTVARC and anywhere else that seems accurate. Since much of the information is second hand, I would appreciate any updates you may know of.

Call the system now and check it out. It's FREE. The PARIS number is 503-629-8933. If you have new or corrected info for me, please mail it to Steve Johnson, 295 SW 203rd Ave, Aloha OR 97006.

Health & Welfare

By Pat Griffiths, KA7UFG

It is with great sadness that we report the passing of Dave Funk, N7DWL. Dave was a long time member and a first class guy. Our sincere condolences go to his wife Marian and his family.

Hanford Van Ness KE7BB is home from a quick trip to the hospital. He is feeling good and will be back at the OTVARC meetings soon.

New OTVARC Board Elected

By Alan Churchill, AA7CV

Elections took place at the December meeting and as a result, we have a new group of "go getters" for OTVARC for 1993. They are:

President: Dale Mosby N7PEX. Dale has been a club member for two years. He is active as our TVI/RFI expert. (Yes, both giving it and knowing what to do about getting rid of it). He has been a ham since 1990 and enjoys all bands and most modes. He recently put up a tower and has 500 watts with which to contact the world. His whole family is a ham family. His wife, Mary Jo KB7NJE and his daughter Harmony N7XFR can be heard on 6.90 almost every night.

Vice President: Alan Churchill AA7CV was our President for 1992. He joined the club at about the same time Dale did. He was first licensed as K7JYR in Yakima at age 13 but dropped out of Ham "Radio only 2 years later. Thirty years went by and the bug bit again. He is mostly on 20 meters and uses an old Heath HW101 with "real tubes" and an 811A linear. He enjoys building and also edits the OTVARC newsletter.

Secretary: Bradley Beach N7NVC served as our Secretary for 1992 also. He joined OTVARC in 1980 and has been licensed since 1950 (at age 14). Brad operates mostly on 10M SSB. He is this year's head honcho of the Sea-Pac board so is a very busy guy.

Treasurer: Carl Clawson WS7L is our Treasurer again for 1993. Like Brad, he served our club in 1992 also. Carl joined OTVARC in 1988 and has been a ham since 1987. His work as a software engineer doesn't give him much time to operate but he has done a super job for us all as head of Field Day for the last two years. As Treasurer, Carl is the money man, the one to see to join OTVARC or to renew your membership.

We also have five **Trustees** that complete the board of OTVARC. Trustees are elected for two year terms so they overlap the officers. Three Trustee positions are elected one year and two the next. This gives consistency to the OTVARC board. Your Trustees for 1993 are Al Berg WB7SIC, Dave Morrison W7JXU, Ira Rubin KF7QS, Lynn Hurd WB7UNU and Wes Allen K7WWG.

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1993 OTVARC MEMBERSHIP APPLICATION AND RENEWAL FORM

Name _____ Call _____ Class _____

Address _____ Member # _____

City, State, Zip _____ Home Phone _____

Spouse Name _____ Work Phone _____

Occupation _____ ARRL Member? Yes No

Former Calls _____ Omit Phone fr Dir? Yes No

Computer Owned _____ Years Licensed _____

Station Consists of _____

Other Interests _____

Comments _____

Circle the interests you have.

Operation:

Subscribe To:

Interests (Cont)

- | | | |
|--------------|--------------------------|----------------------|
| 1 CW | 41 QST | 325 Public Service |
| 2 SSB | 42 CD | 330 Repeater |
| 3 FM | 43 73 | 335 RFI/TVI |
| 4 Packet | 44 NCJ | 340 Satellites |
| 5 ATV | 45 W5YI | 345 Scholarship |
| | World Radio | 350 Sea-Pac |
| 11 HF | | 355 Social Events |
| 12 VHF | Interests: | 360 Technical |
| 13 UHF | | 365 Testing |
| 14 MARS | 275 Contesting | 370 Tower Ordinances |
| | 280 DX News | 375 Training |
| 21 QRP | 285 Equipment Evaluation | 380 Travelers |
| 22 Ragchew | 290 Emergency Services | 385 VHF/UHF |
| 23 DX | 295 Field Day | |
| 24 Contest | 300 Health & Welfare | |
| 25 Traffic | 305 Membership Services | |
| 26 Field Day | 310 Newsletter | |
| 27 Homebrew | 315 Project Night | |
| | 320 Public Relations | |

OTVARC Full Membership..... \$10/yr. Total \$ _____

OTVARC Associate..... 10/yr. _____

Family Member..... 5/yr. Date Paid _____

Life Membership..... See Treasurer: _____

ARRL Membership..... 30/yr. Check Number _____

ARRL (65 & older)..... 24/yr. _____

ARRL Family Member..... 12/yr. _____

Mail to: OTVARC P.O. Box 5132 Aloha, OR 97006-0132

FOR PLAIN ENGLISH ON VOICE RADIO

An October, 1991, QST article by Bob Halprin (K1XA), and much monitoring of several two-meter repeaters and of parts of the ten and 75 meter phone bands, has prompted me to establish a club called "HAMS FOR PLAIN ENGLISH". So far I'm the only member but I'd like to see the movement grow. I outline some of the points mentioned in Halprin's article, and welcome comments by our members. I would like to call the club "HAMS FOR PLAIN AND GOOD ENGLISH", but one step at a time. I guess we can't take on the schools' English Depts.

1. 73 in CW means best regards. 73's means best regardsES, and best 73's means best best regardsES. Why not just say "BEST REGARDS" or "LOVE & KISSES" (instead of "88")?

2. Except in special DX contacts or in contests, use of CW expressions such as QSL, QSY, QRT, QRP, YL, XYL, QSO, QTH, HI, etc. is not necessary. You have a voice, a vocabulary, and a mind, so use them. Just say what you mean, and take it from me (55 years a ham), it's not easy, and it takes time.

3. We have an INTERNATIONAL PHONETIC ALPHABET, used by communications professionals in many fields worldwide, so why not use it? Use of cutesie expressions such as "TWO DARNED TIRED JAWS" for W2DTG may be funny but there's a reason for the standard, so why not use it - all the time. Its use is especially important in foreign DX contacts.

I hate to preach, or play the role of a "kilocycle cop", but I think Bob Halprin's ideas in the QST article are good ones, and applying them will go a long way to separate us from those "10-4 GOOD BUDDY" CB guys. Have you listened to CB lately, or to 10 or 75 meter SSB, or our repeaters for that matter? UG !!!! For more points, read the QST article.

Emerson Hoyt, WX7E

--- \HAM\ORTVC921 ---

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Special Event Station Coming

By Dale Mosby, N7PEX

At the December meeting we had a brief mention of a special event station planned for February. The month was chosen because there were no other events on the calendar for the month. The event is Oregon's 134th birthday Sunday the 14th. One of the reasons for the special event is to give some of the new members of the club a chance to operate a bit of HF and experience some of the fun of fast operating as happens with a busy Field Day station. Well maybe not my Field Day station, but if I had a really big station maybe the sort of fast action that I imagine I would experience.

The interest at the club meeting was not high enough to justify hauling out the club trailer and setting that up as our Special Event station. So the plan is to make things as easy and relaxed as possible for the day. We will have multiple stations with some advance coordination so we know which bands and modes people will be operating. People with some experience handling traffic, contesting, or operating Field Day can use their stations and invite some other members over to their station. The experienced operators can then offer some help getting other people on the air.

The actual operation of each station will be up to the station owner. That station's call will be used and any band and mode can be used. Each station will be assigned a letter and contacts issued a sequence number preceded with the station letter. Contacted stations will QSL

with SASE to the OTVARC Post Office Box. When the Special event ends we will total the contacts and have certificates printed. Each station will be responsible for checking their logs and responding to contacts. The operators that join the station can be enlisted to assist with this.

There will be more information about this available at the January meeting. People with the experience to operate a station should be prepared to sign up to operate and decide how many people they would like to invite to join them. Other people that would like to visit a station and spend some time making contacts will be able to sign up for that.

Daily Net Listing for Two Meters

by Bill Roth N7RYW

145.27Daily	5:50AM Weather Net
145.27Daily	4:24PM Weather Net
146.78Daily	7:30 PM Dist 4 ARES (Corvallis)
147.32Daily	6:05 PM Traffic and training net.
147.32Daily	7:30 PM District
145.27Mon.	8:30 PM YL & Ladies Net
146.84Mon.	7:00 PM Portland ARC news.
146.86Mon.	7:00 PM ARES net.
147.00Mon.	8:00 PM CCRA Service net.
145.27Tue.	6:00 PM DX Linkup to the East
145.27Tue.	9:00 PM Computer Net
146.90Tue.	7:00 PM WA Co. ARES Net
147.24Tue.	8:00 PM Swap n Shop
145.19Wed.	8:00 PM NW Astronomy Net
145.27Wed.	8:00 PM Intertie Checkin
147.28Wed.	7:30 PM Hoodview ARC net.
145.27Thur.	7:00PM Intertie Technical
145.27Thur.	9:00 PM NAPRA Packet Ragchew
145.35Thur.	7:30 PM Swapnet & Newsline.
146.64Thur.	7:15 PM Yamhill Co. ARES
146.86Thur.	7:00 PM ARES net.
145.27Fri.	8:00PM Youth Net.
145.27Sat.	9:00 AM Swap Net
145.27Sat.	12:00PM Nightowls Net
145.27Sun.	10:00PM Astronomy Net

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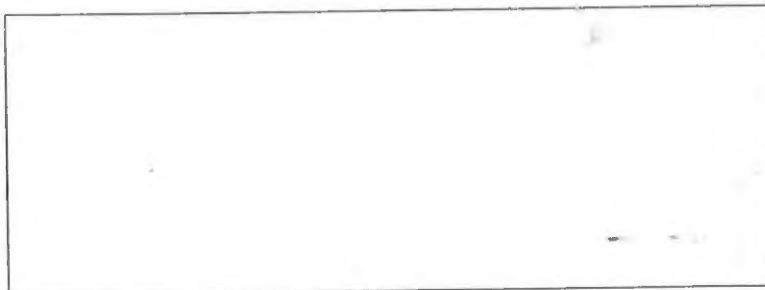


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